SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
RPM 40 / 60, cement based thixotropic repair and strengthening mortar.

1.2 Relevant identified uses of the substance or mixture
Used in repair and strengthening works in reinforced concrete structures.

1.3 Details of the supplier of the safety data sheet

Company name:	Sozeri Industry Co. Inc.
Address:	Ankara-Izmir Road Turgutlu 8. Km Manisa/Turkey
Telephone:	+90 212 276 62 62
Website:	www.tic-m.com
Email:	info@tic-m.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
According to Regulation (EC) No 1272/2008 [CLP]
Skin Corr./Irrit. 2
Eye Dam. /Irrit. 1
STOT SE 3 (irritating to respiratory system)
H318, H315, H335

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Pictograms:

Signal Word: Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

Precautionary Statement:

P102	Keep out of reach of children.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P261	Avoid breathing dust.

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/attention.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

According to Regulation (EC) No 1272/2008 [CLP]
Hazard determining component(s) for labelling: Portland cement, chemicals

2.3 Other hazards

According to Regulation (EC) No 1272/2008 [CLP]
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature

Preparation based on: modified cement mortar.

Hazardous ingredients (GHS)
according to Regulation (EC) No. 1272/2008

Calcium oxide

Content (W/W): >= 15 % - < 25**%** Skin Corr./Irrit. 2
CAS Number: 1305-78-8 Eye Dam. /Irrit. 1
EC-Number: 215-138-9 STOT SE 3 (irr. to respiratory syst.)
REACH registration number: 01- H318, H315, H335

Portland cement, chemicals

Content (W/W): >= 15 % - < 50 % Skin Corr./Irrit. 2
CAS Number: 65997-15-1 Eye Dam./Irrit. 1

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey +90 212 276 62 62 www.tic-m.com
NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands +31 318 728 148 www.tic-m.com
Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey +90 212 276 62 62 www.tic-m.com

EC-Number: 266-043-4	STOT SE 3 (irr. to respiratory syst.)
2119475325-36	H318, H315, H335

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

4.1.1 General information

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

4.1.2 If inhaled

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

4.1.3 On skin contact

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

4.1.4 On contact with eyes

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

4.1.5 On ingestion

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media

Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

5.2 Special hazards arising from the substance or mixture

Product is not combustible or explosive. No particular hazards known.

5.3 Advice for fire-fighters

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

6.2 Environmental precautions
Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
Sweep/shovel up.

6.4 Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

7.1.1 Protection against fire and explosion
No special precautions necessary.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Suitable materials for containers
High density polyethylene (HDPE), Low density polyethylene (LDPE)

7.2.2 Further information on storage conditions
Containers should be stored tightly sealed in a dry place.

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com
NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com
Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with occupational exposure limits

1305-78-8: Calcium oxide

TWA value 2 mg/m3 (WEL/EH 40 (UK))

1317-65-3: Limestone

TWA value 10 mg/m3 (WEL/EH 40 (UK)), Inhalable dust
TWA value 4 mg/m3 (WEL/EH 40 (UK)), Respirable dust
TWA value 4 mg/m3 (WEL/EH 40 (UK)), Respirable
TWA value 10 mg/m3 (WEL/EH 40 (UK)), Inhalable

7631-86-9: Silicon dioxide

TWA value 6 mg/m3 (WEL/EH 40 (UK)), Inhalable dust
TWA value 2.4 mg/m3 (WEL/EH 40 (UK)), Respirable dust

13397-24-5: Gypsum (Ca (SO4).2H2O)

TWA value 10 mg/m3 (WEL/EH 40 (UK)), Inhalable dust
TWA value 4 mg/m3 (WEL/EH 40 (UK)), Respirable dust

65997-15-1: Portland cement, chemicals

TWA value 4 mg/m3 (WEL/EH 40 (UK)), Respirable dust
TWA value 10 mg/m3 (WEL/EH 40 (UK)), Inhalable dust

8.2 Exposure controls

8.2.1 Respiratory protection

Breathing protection if dusts are formed. (Particle filter EN 143 P1)

8.2.2 Hand protection

nitrile coated cotton gloves (e.g. EN 388, 374)

8.2.3 Eye protection

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

8.2.4 Body protection

Body protection must be chosen based on level of activity and exposure.

8.2.5 General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Contaminated equipment or clothing should be cleaned after each use or disposed of.

8.2.6 Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	powder
Color:	dark grey
Odor:	almost odorless
Odor threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 10(water, 20 °C, as aqueous solution)
Melting temperature:	> 100°C
boiling temperature:	not applicable
Flash point:	Study scientifically not justified.
Evaporation rate:	The product is a non-volatile solid.
Flammability:	not flammable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Vapor pressure:	The product has not been tested.
Relative vapor density (air):	The product is a non-volatile solid.
Solubility in water:	not soluble (20 °C)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	not applicable, the product is a solid
Explosion hazard:	not explosive

9.2 Other information

Bulk density:	approx. 1,250 - 2,800 kg/m^3 (25 °C)
Miscibility with water:	(20 °C) not soluble
Hygroscopy:	hygroscopic
Solids content:	100 %
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

10.1 Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.
Corrosion to metals: No corrosive effect on metal.

10.2 Chemical stability
The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated.

10.4 Conditions to avoid
See MSDS section 7 - Handling and storage.

10.5 Incompatible materials
Substances to avoid: strong bases, strong acids.

10.6 Hazardous decomposition products
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

11.1.1 Acute toxicity
Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

11.1.2 Irritation
Assessment of irritating effects:
Skin contact causes irritation. May cause severe damage to the eyes.

11.1.3 Respiratory/Skin sensitization
Assessment of sensitization:
There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.
Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

11.1.4 Germ cell mutagenicity
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.5 Carcinogenicity

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com
NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com
Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

Assessment of carcinogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.6 Reproductive toxicity
Assessment of reproduction toxicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.7 Developmental toxicity
Assessment of teratogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

11.1.8 Specific target organ toxicity (single exposure)
Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

11.1.9 Repeated dose toxicity and Specific target organ toxicity (repeated exposure)
Assessment of repeated dose toxicity:
No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met.

11.1.10 Aspiration hazard
No aspiration hazard expected.

11.1.11 Other relevant toxicity information
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12: Ecological Information

12.1 Toxicity
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.
The product gives rise to pH shifts. Based on available Data, the classification criteria are not met.

12.2 Persistence and degradability
Assessment biodegradation and elimination (H2O):
Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Mobility in soil

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com
NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com
Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.4 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bio accumulative/toxic) criteria or the vPvB (very persistent/very bio accumulative) criteria.

12.5 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.6 Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Observe national and local legal requirements.
Residues should be disposed of in the same manner as the substance/product.

13.1.1 Contaminated packaging

Completely emptied packaging's can be given for.

SECTION 14: Transport Information

Land transport

ADR	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known
RID	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com
NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com
Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Inland waterway transport

ADN	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Sea transport

IMDG	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1 UN number

See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2 UN proper shipping name

See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above

14.3 Transport hazard class(es)

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4 Packing group

See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5 Environmental hazards

See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6 Special precautions for user

See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

Many countries have legislation that requires chemical producers or suppliers to prepare MSDSs. In Canada, this legislation is generally called WHMIS (Workplace Hazardous Materials Information System). In the US, the OSHA Hazard Communication Rule (29 CFR1900.1200) prescribes what information is to be provided by MSDS. This MSDS has been prepared in the 16-section format consistent with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Other agencies utilizing this format include the American National Standards Institute (ANSI)-American National Standard for Hazardous Industrial Chemicals, the International Organization for Standardization (ISO), the European Union (EU), and the International Labor Organization (ILO).

With respect to the products that are the subject of this MSDS, the WHMIS requirements of the Hazardous Products Act and Controlled Products Regulations do NOT apply to products classified as "manufactured articles". Section 10 of the Hazardous Products Act indicates by definition that a "manufactured article" means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, under normal conditions of use, will not release or otherwise cause a person to be exposed to a controlled product. In this definition, "exposure" means in a sufficient quantity to pose a hazard. Exposure is limited to the toxicological hazards and means potential for physical contact that could result in damage or potential for entry into the body by a route that could cause harm. "Normal condition of use" does not include an installation process. The subject products fall within the scope of this definition and as "manufactured articles" do not require a MSDS. The information provided in this MSDS relates to the nature of the raw materials used to make the manufactured articles.

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr. / Irrit.	Skin corrosion/irritation
Eye Dam. /Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity – single exposure
STOT RE	Specific target organ toxicity – repeated exposure
H318	Causes serious eye damage.
H315	Causes skin irritation
H335	May cause respiratory irritation.
H372	Causes damage to organs (Lung) through prolonged or repeated exposure (inhalation)

Further informations

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Headquarters: ITU Ayazaga Campus Ari 1 Teknokent No:8 Maslak, Istanbul/Turkey
+90 212 276 62 62 www.tic-m.com

NL Office: Amsterdam Arena Boulevard, 65-71, Amsterdam, 1101 DL, The Netherlands
+31 318 728 148 www.tic-m.com

Factory: Ankara - Izmir Road Turgutlu 8. Km Manisa/Turkey
+90 212 276 62 62 www.tic-m.com